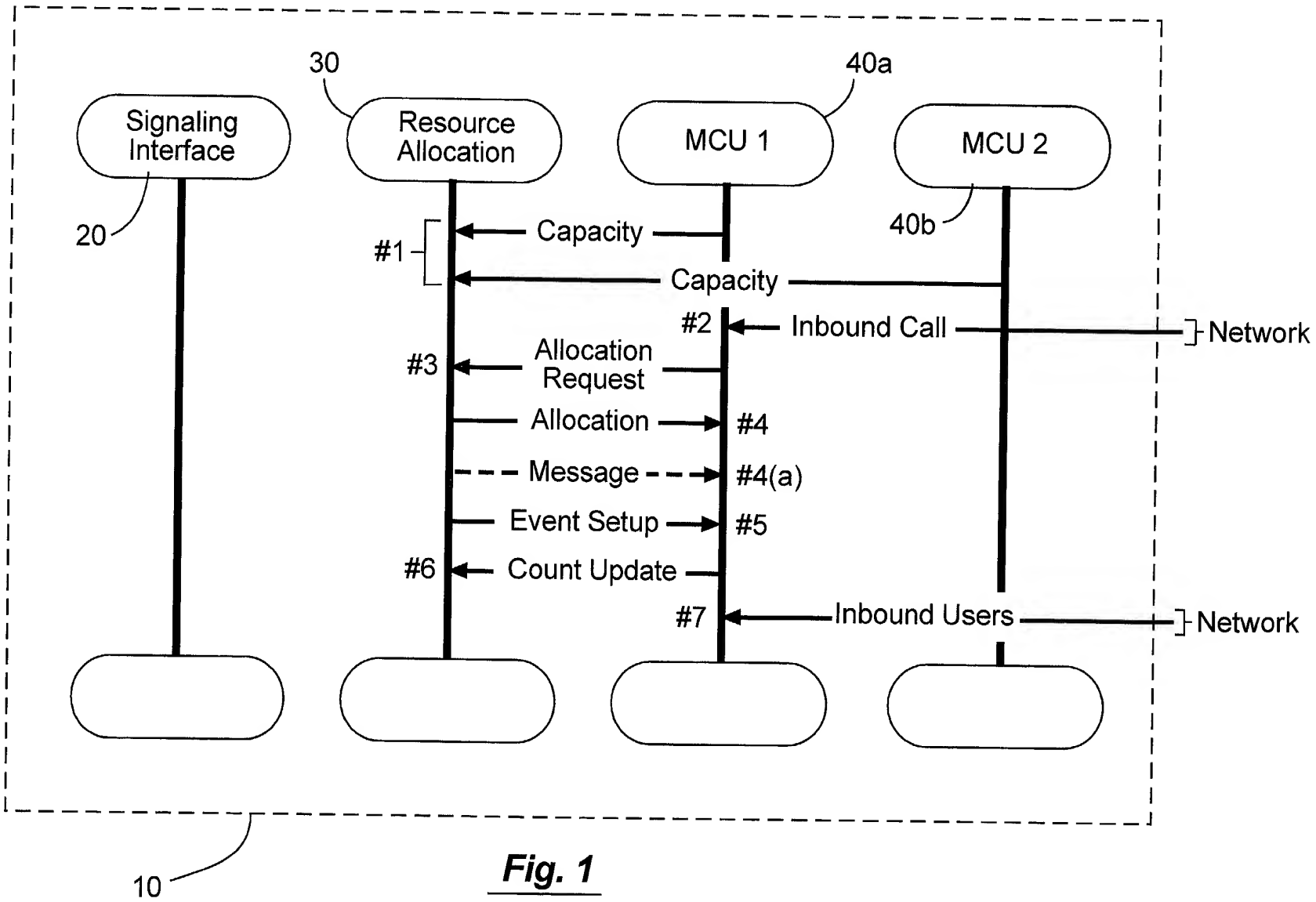
30
40a
Signaling Interface
Resource Allocation
MCU 1
MCU 2
20
40b
#1
Capacity
Capacity
#2
Inbound Call
Network
#3
Allocation Request
Allocation
#4
Message
#4(a)
Event Setup
#5
#6
Count Update
#7
Inbound Users
Network
10

Fig. 1

POSTED: 7/6/2006

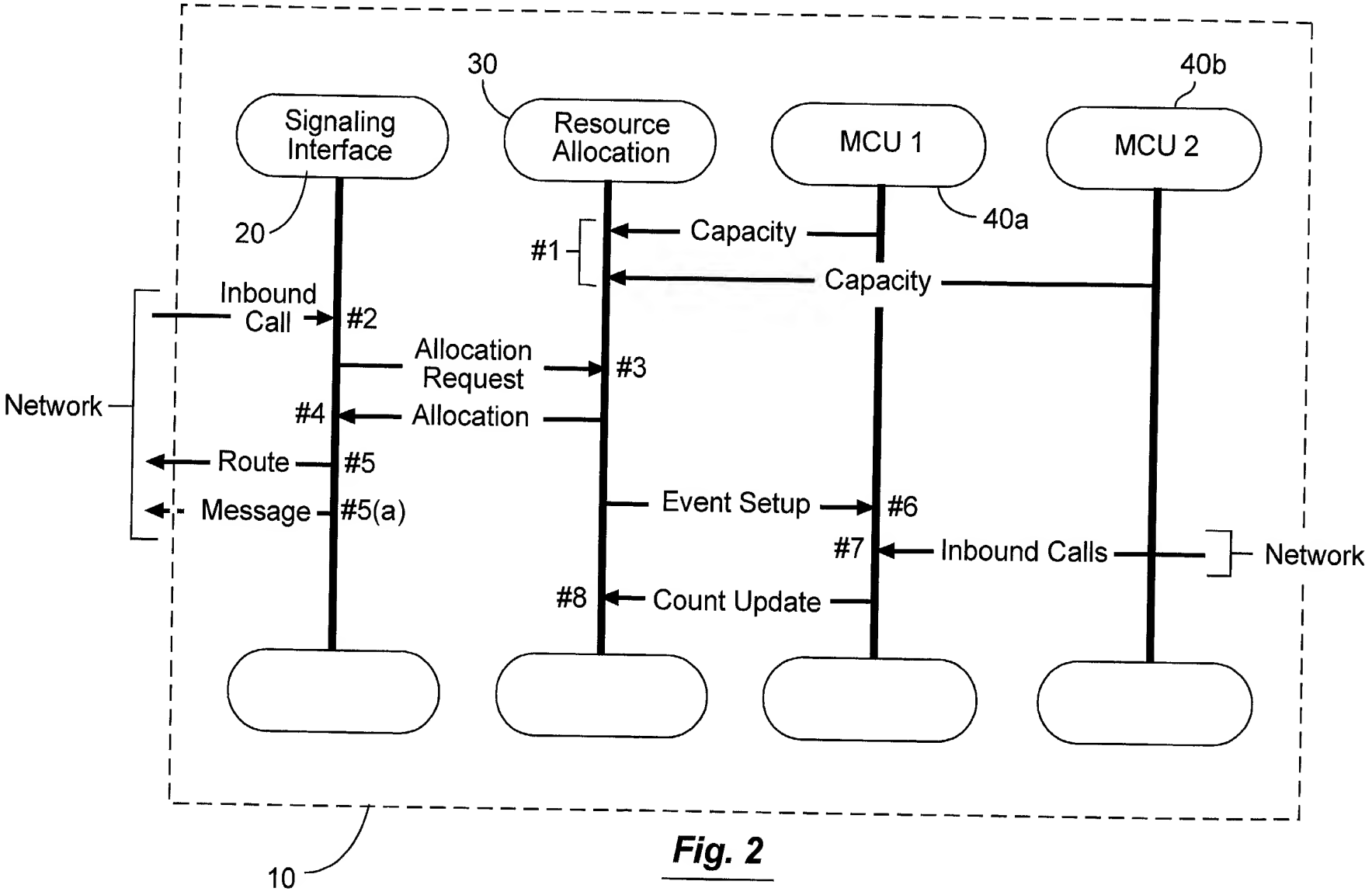

Fig. 2

POSTED: 12/27/2005

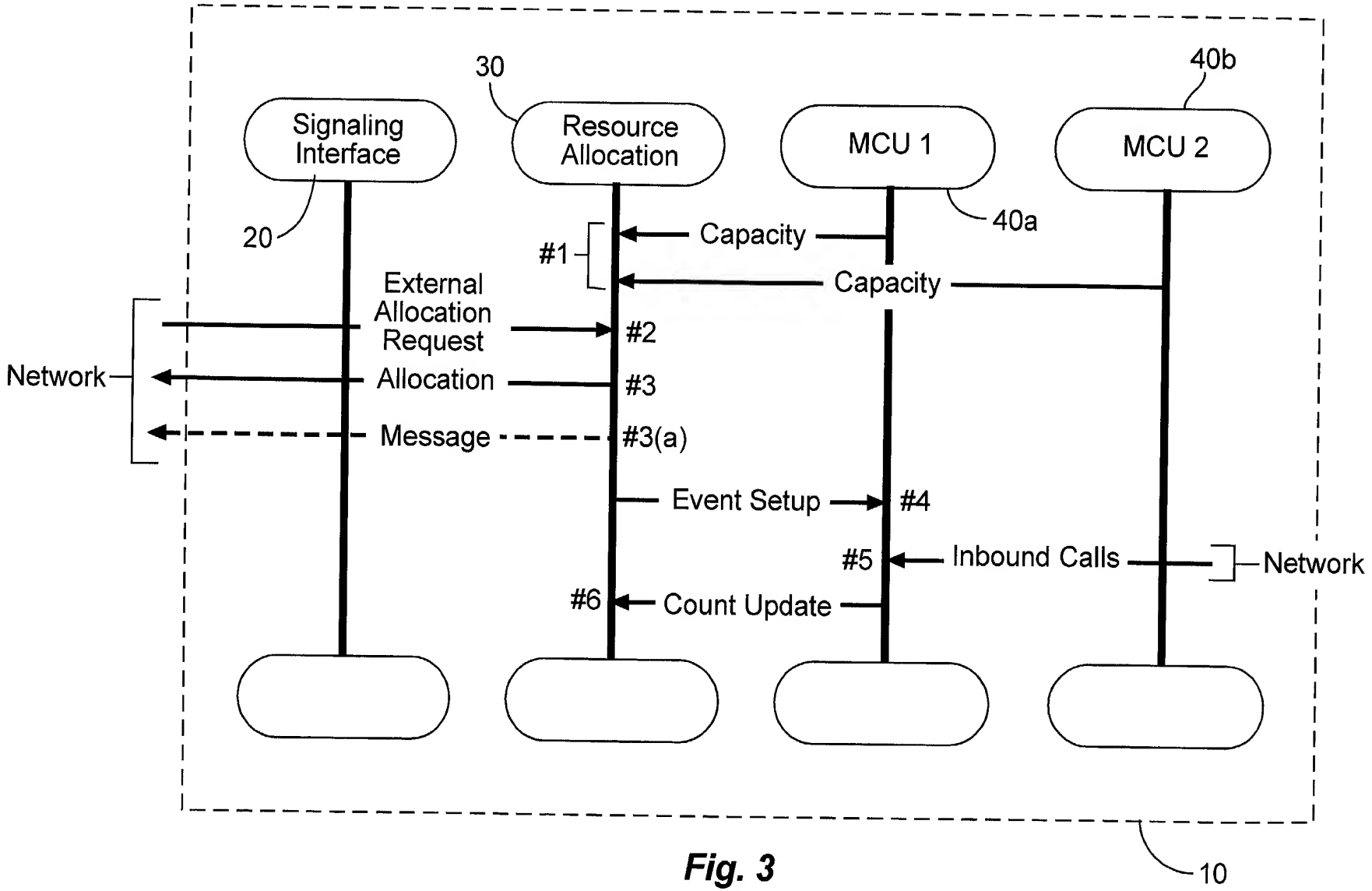

Fig. 3

Modeling Table					
Modeling Interval j	1	2	3	...	j
Probability P_j	P_1	P_2	P_3	...	P_j

Figure 4

Accumulation Table			
Event Counter	Resource Accumulators $\left(R_j\right)$		
w	R_1	R_2	R_3

Figure 5

Modeling Table			
Modeling Interval j	1	2	3
Probability P_j	P_1	P_2	P_3

Figure 7

Tuning Table				
		Normalized Resource Accumulations $\left(\overline{R}_{i,j}\right)$		
Tuning Interval (i)	Event Counter (w_i)	$\overline{R}i,1$	$\overline{R}i,2$	$\overline{R}i,3$
1	w_1	$\overline{R}_{1,1}$	$\overline{R}_{1,2}$	$\overline{R}_{1,3}$
2	w_2	$\overline{R}_{2,1}$	$\overline{R}_{2,2}$	$\overline{R}_{2,3}$
3	w_3	$\overline{R}_{3,1}$	$\overline{R}_{3,2}$	$\overline{R}_{3,3}$

Figure 6

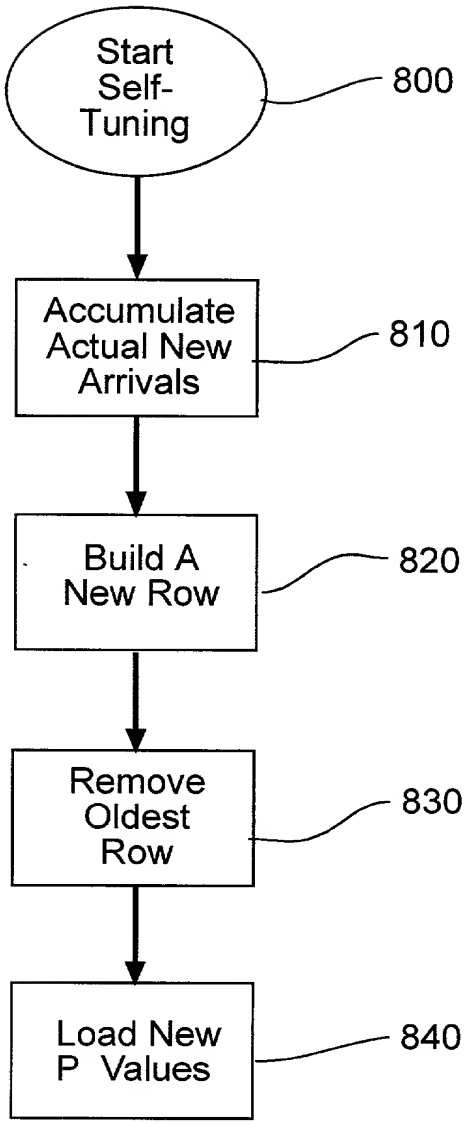
Start Self-Tuning
800
Accumulate Actual New Arrivals
810
Build A New Row
820
Remove Oldest Row
830
Load New P Values
840

Fig. 8

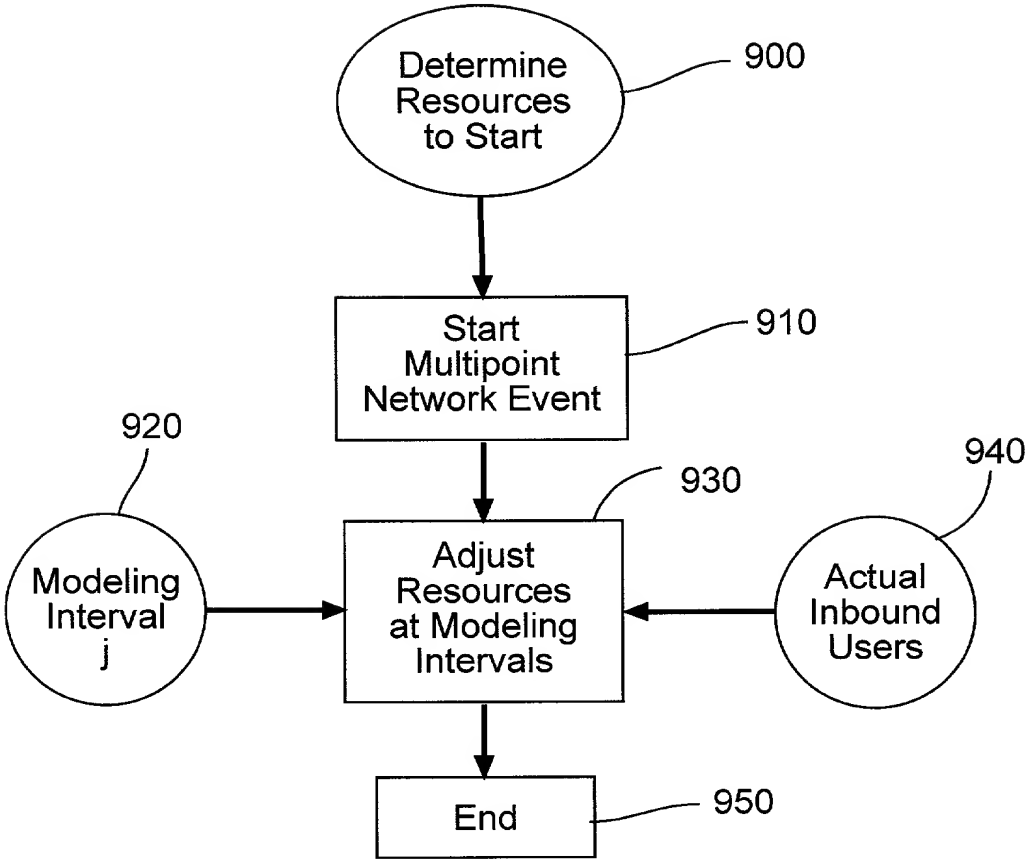
Determine Resources to Start
900
Start Multipoint Network Event
910
920
Modeling Interval j
930
Adjust Resources at Modeling Intervals
940
Actual Inbound Users
End
950

Fig. 9

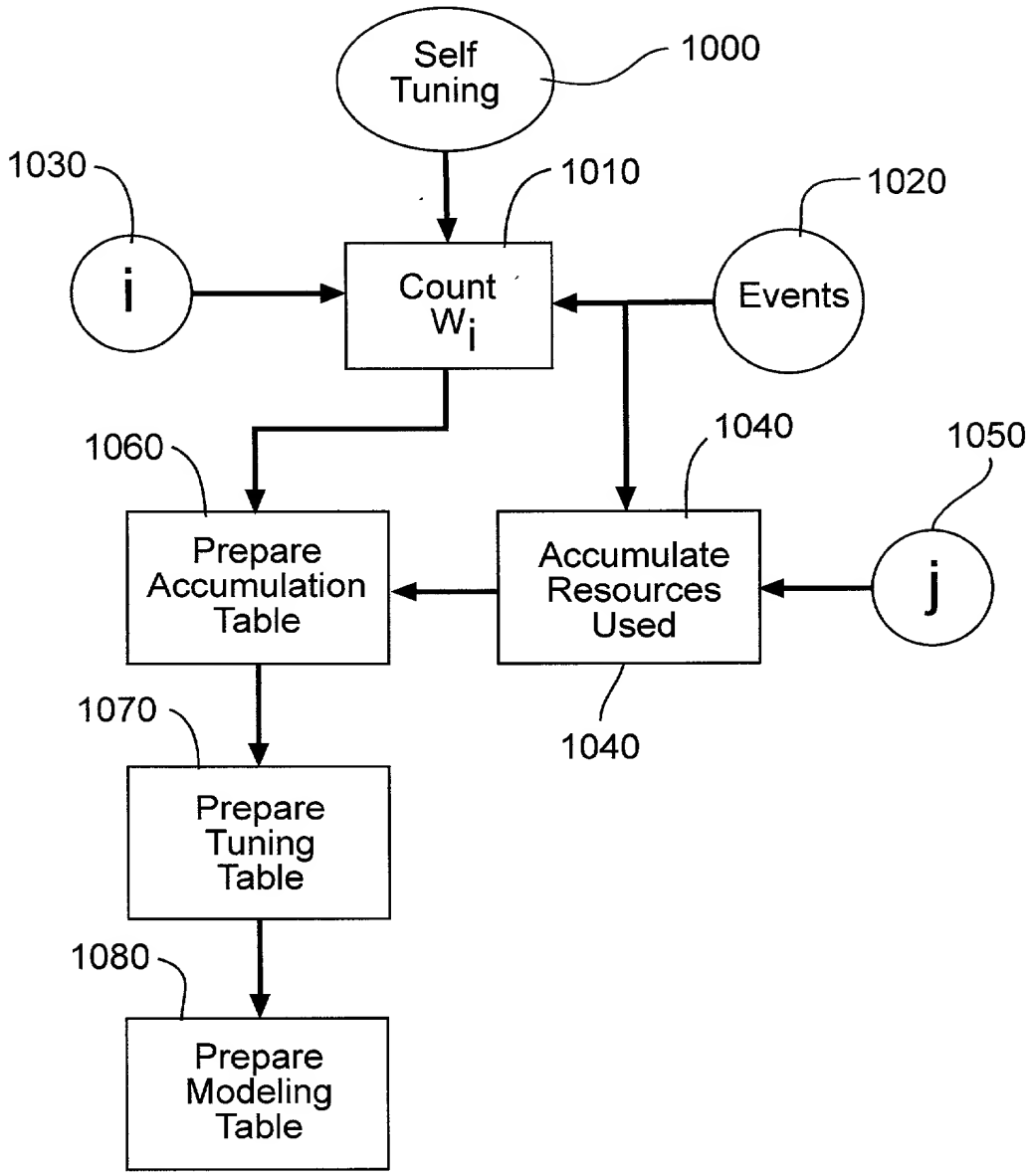
Self Tuning
1000
1030
1010
1020
i
Count W_i
Events
1060
1040
1050
Prepare Accumulation Table
Accumulate Resources Used
j
1040
1070
Prepare Tuning Table
1080
Prepare Modeling Table

Figure 10